
Supporting Information

Synthesis of methacryloylated hydroxyethylcellulose and development of mucoadhesive wafers for buccal drug delivery

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Table S1. Standard calibration data of methacrylic acid.

No	ID	Concentration ($\mu\text{mol/mL}$)	Peak area (DAD @ 200 nm)
1	MA 1	59.0	6672.8
2	MA 2	29.5	3462.7
3	MA 3	14.7	1765.2
4	MA 4	7.4	881.8
5	MA 5	3.7	352.9
6	MA 6	1.8	166.8
7	MA 7	0.9	99.9
8	MA 8	0.5	50.2
9	MA 9	0.2	24.6
10	MA 10	0.1	17.3

Figure S1. Standard calibration curve of methacrylic acid

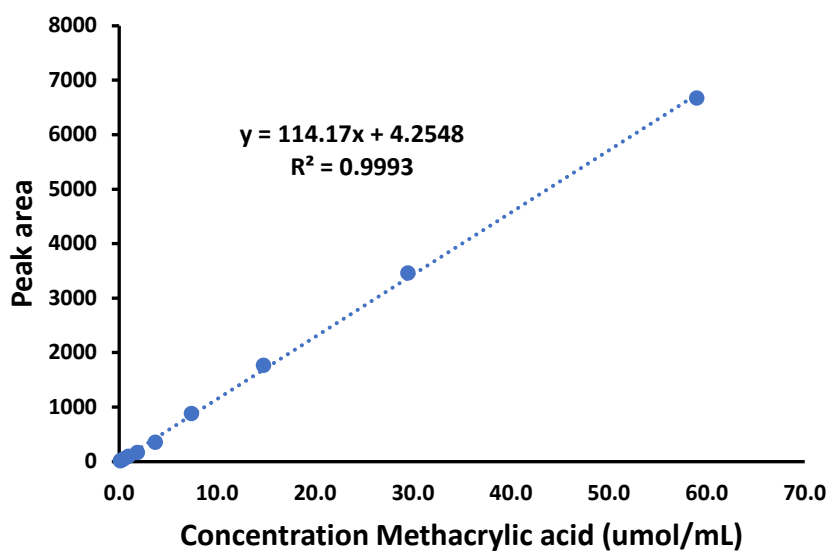


Table S2: Calculation of amount of methacrylic acid in HECGMA samples

Sample	Absorbance	Concentration of methacrylic acid ($\mu\text{mol/mL}$)	Actual amount of methacrylic acid ($\mu\text{mol/g}$)
HEC	0.00	0.00	0.00
HECGMA Low	41.10 ± 0.08	0.32 ± 0.03	64.49 ± 5.98
HECGMA Medium	45.60 ± 7.80	0.36 ± 0.03	72.43 ± 6.16
HECGMA High	103.30 ± 23.00	0.87 ± 0.16	173.50 ± 32.84